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(54) Title: MULTI-STACK OPTICAL DATA STORAGE MEDIUM AND USE OF SUCH MEDIUM
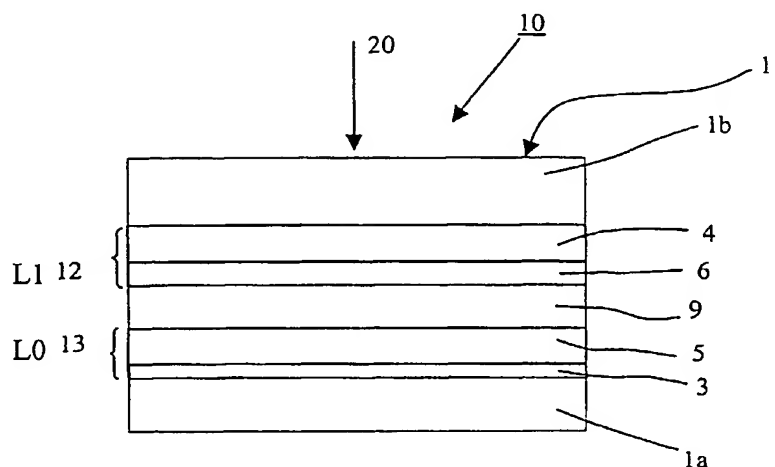
(57) Abstract: The present invention relates to a multi-stack optical data storage medium (10). The medium comprises a first sub-
strate (1a) with present on a side thereof a first recording stack (13) named L_0, a second substrate (1b) with present on a side thereof
a second recording stack (12) named L_1 comprising a recordable type L_1 recording layer (4) having a thickness t_{RL1} and a complex
refractive index $n_\lambda - i^*k_\lambda$ at a wavelength λ. A second reflective layer (6) is present adjacent the L_1 recording layer (4) at a side most
remote from a radiation beam (20) entrance face (11) of the medium. The second recording stack L_1 (12) is present at a position closer
to the entrance face (11) than the L_0 recording stack (13). A radiation beam transparent spacer layer (9) is sandwiched between the
recording stacks (12, 13). In order to achieve compatibility with the DVD-9 ROM standard as far as reflection levels are concerned,
the second reflective layer (6) mainly comprises the metal Cu and has a thickness t_{MLn} selected from the range of 8 - 20 nm and the
thickness t_{RL1} and k_λ of the recordable L_1 recording layer (4) fulfils the formula $t_{RL1}^*k_\lambda \leq 8$ nm.